



# MINOS+ All Experimenters' Meeting Report

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2016-2-15

# GPS/TPC Issue

- ▶ Week was pretty quiet – until the 13<sup>th</sup>
  - ▶ Timing problem at simultaneously developed at both detectors
  - ▶ Number of GPS satellites seen dropped (eventually to zero)
  - ▶ TrueTime GPS receiver
    - ▶ Firmware *feature*: Reset to 1996 every 1024 weeks – We'd reached *epoch* end
    - ▶ Time on daq08-nd machine was also out of sync and required root privileges
      - Addressed, though eventually all tasks moved to daq09 – fixed TPC at ND
  - ▶ Additional issues with PPS at FD required attention
  - ▶ Recovered on the 14<sup>th</sup> at 3 PM
  - ▶ Contributed to reduced LiveTimes



# MINOS+ Status

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Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/14/15 00:00:00	12/21/15 00:00:00	99.7%	99.5%	99.8%	99.5%
12/21/15 00:00:00	12/28/15 00:00:00	99.7%	99.7%	<b>43.4%</b>	<b>43.6%</b>
12/28/15 00:00:00	1/4/16 00:00:00	<u>81.0%</u>	<u>85.0%</u>	<u>70.0%</u>	<u>71.0%</u>
1/4/16 00:00:00	1/11/16 00:00:00	97.5%	97.1%	99.8%	99.8%
1/11/16 00:00:00	1/18/16 00:00:00	81.0%	71.5%	92.1%	96.5%
1/18/16 00:00:00	1/25/16 00:00:00	97.1%	97.3%	99.7%	99.8%
1/25/16 00:00:00	2/1/16 00:00:00	98.8%	97.2%	98.7%	96.5%
2/1/16 00:00:00	2/8/16 00:00:00	99.1%	98.8%	87.2%	86.0%
2/8/16 00:00:00	2/15/16 00:00:00	99.4%	88.2%	99.2%	88.3%

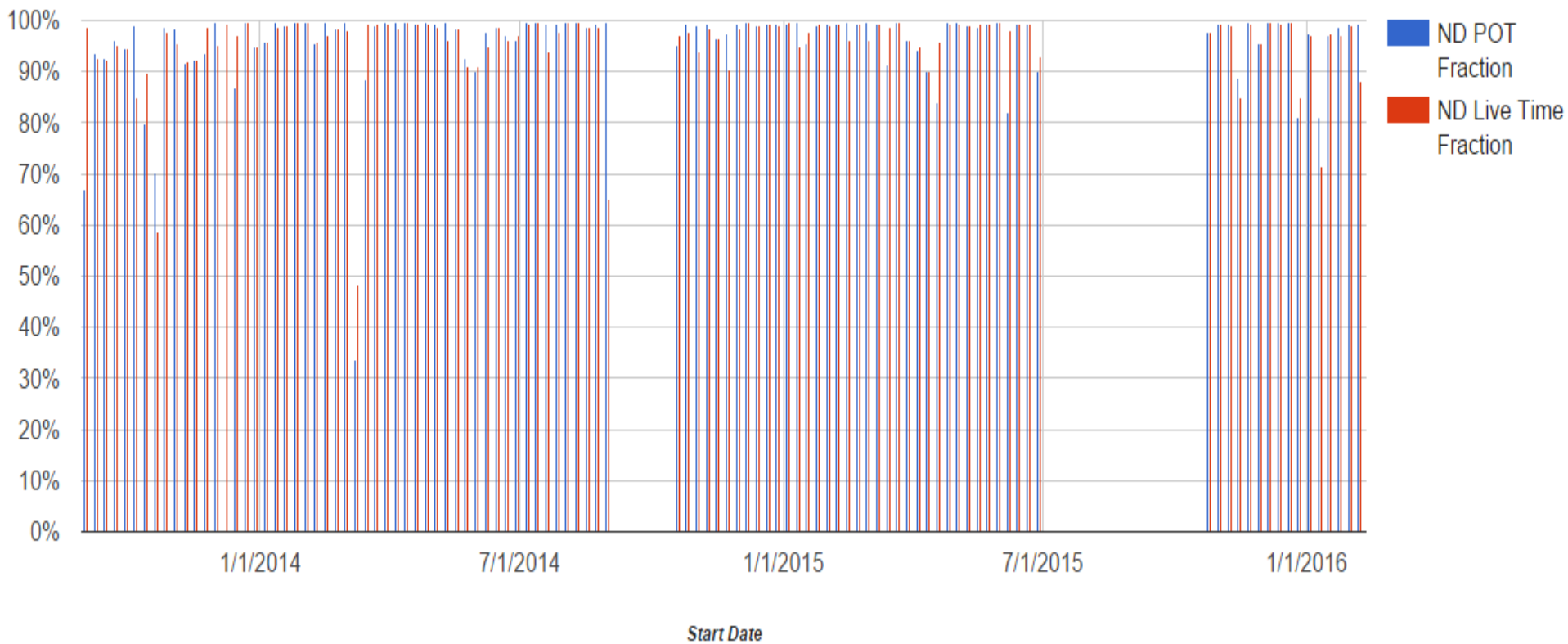
**Bold:** Intermittent HV bad readings, which DQ flags whole subruns

**Underline:** Bad HV Controller (ND); Bad Field Point (FD)

# ND Status

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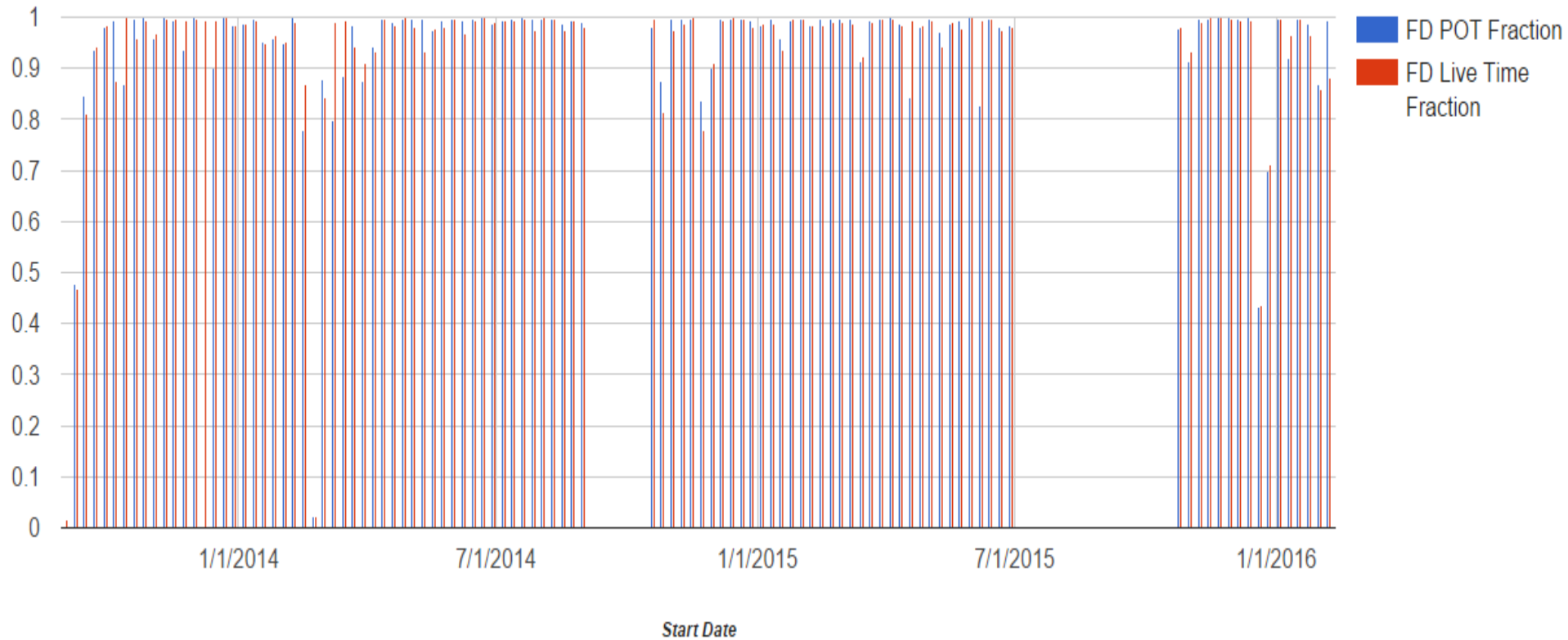
ND POT fraction and Live Time Fraction



# FD Status

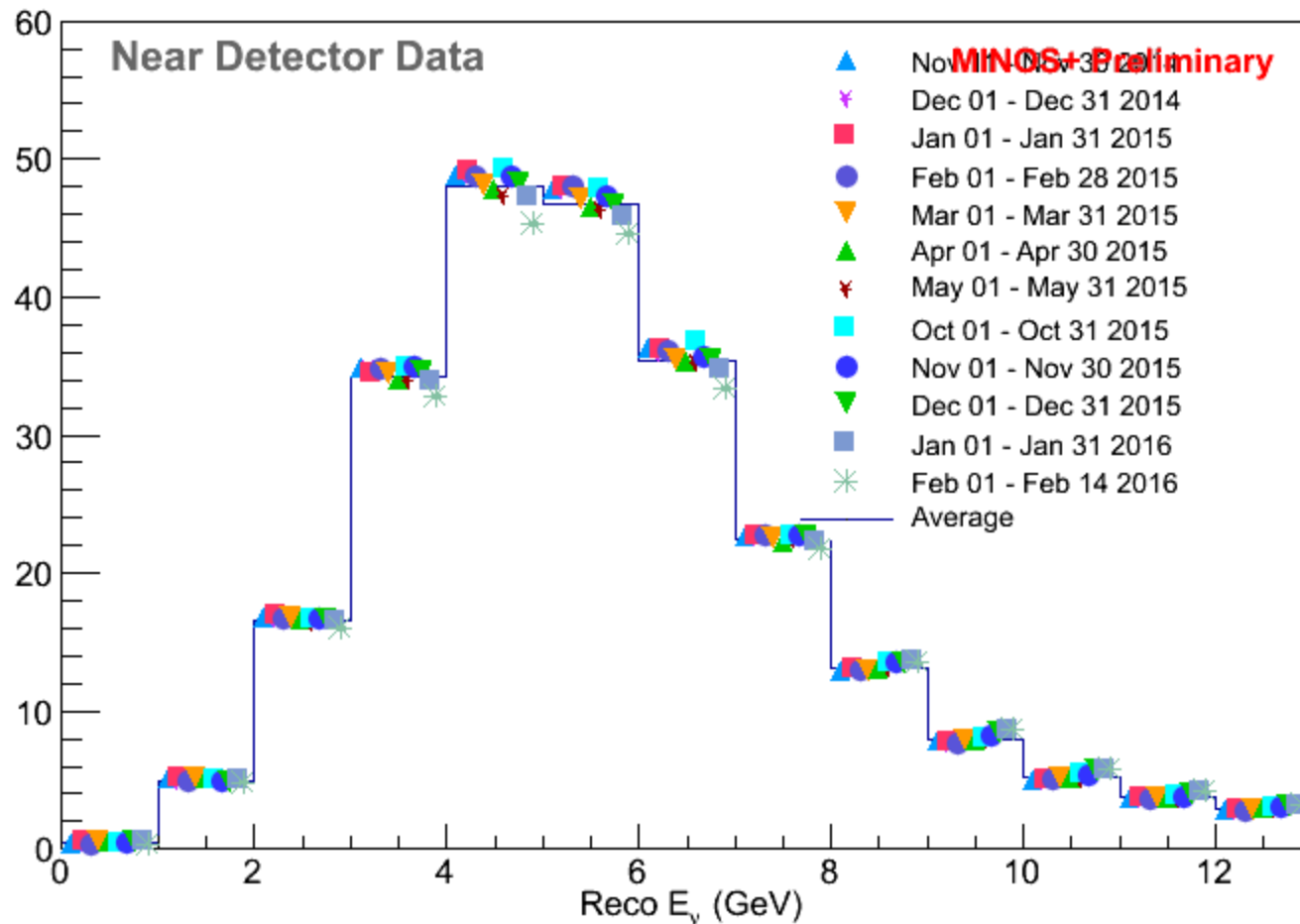
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FD POT Fraction and Live Time Fraction



# Spectrum!

## Neutrino Energy Spectrum Stability (PQ and NQ)



# Events/POT + Intensity

